

Fig. 1

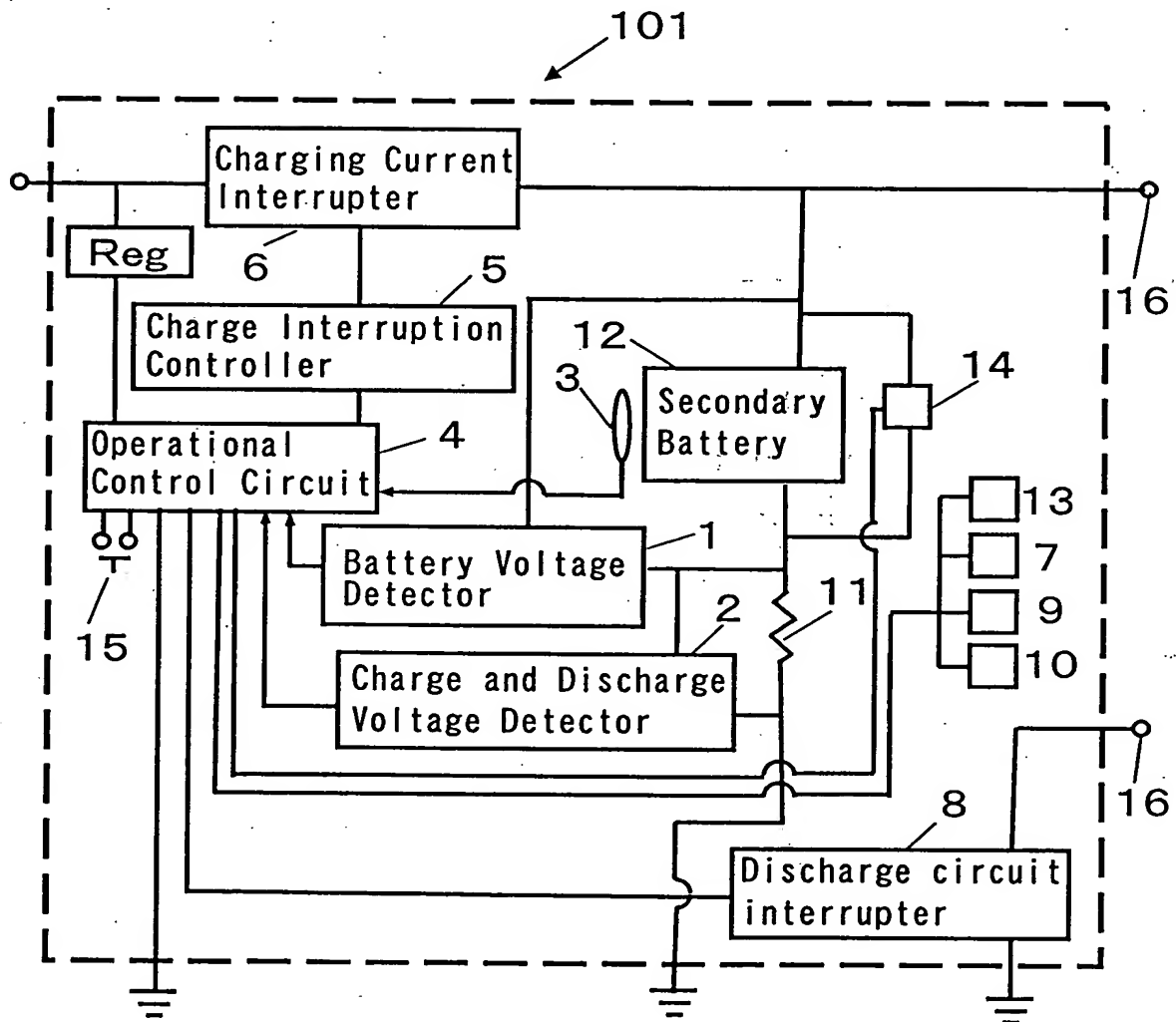


Fig. 2(a)

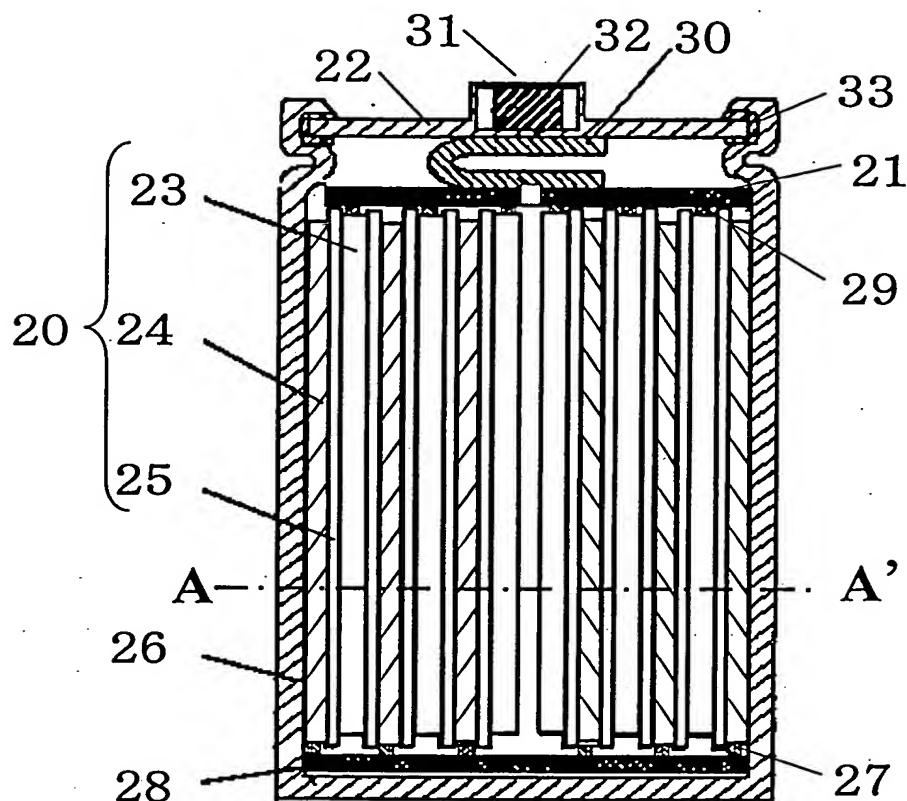
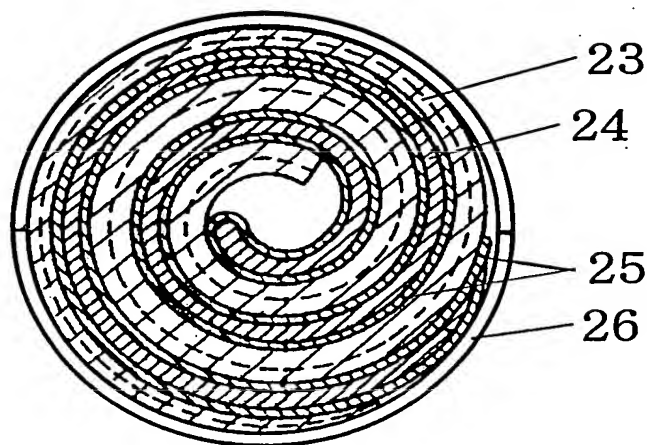


Fig. 2(b)



The block diagram illustrates the internal components of a temperature measuring device 101. A dashed line 105 encloses the main circuitry. A battery 103 is connected to a Temperature Sensor 104. The sensor's output is fed into a Refreshing circuit 108 and an Operational circuit 111. The Refreshing circuit 108 is also connected to a Counter 110. The Operational circuit 111 is connected to the Counter 110, a Refreshing display device 109, and a Remaining Capacity Display 113. A switch 106 is connected to the battery 103 and the Operational circuit 111. A resistor 114 is connected to the Operational circuit 111 and the Remaining Capacity Display 113. The Counter 110 is connected to the Refreshing display device 109 and the Remaining Capacity Display 113. The Refreshing display device 109 is connected to the Remaining Capacity Display 113.

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## Reference Numerals

- 1 Battery voltage detector
- 2 Charge and discharge voltage detector
- 3 Temperature sensor
- 4 Operational control circuit
- 5 Charge interruption controller
- 6 Charging current interrupter
- 7 Abnormality display device
- 8 Discharge circuit interrupter
- 9 Remaining capacity display device
- 10 Degradation detector
- 11 Shunt resistor
- 12 Secondary battery
- 13 Refreshing demand display device
- 14 Refreshing discharge circuit
- 15 Refreshing switch
- 16 Terminal
- 23 Positive electrode plate
- 24 Negative electrode plate
- 25 Separator
- 101 Battery package